

SYMMETRIC INTERCONNECT DESIGN FOR A FLEXURE ARM OF A HARD DISK DRIVE

ABSTRACT OF THE DISCLOSURE

An improved interconnect design for a flexure arm of a hard disk drive is provided. A pair of conductive write traces and a pair of conductive read traces extend generally symmetrically about a center axis of the flexure arm. An inner pair of traces extend adjacent to the center axis of the flexure arm. One each of an outer pair of traces extend adjacent to a trace of the inner pair of traces. Symmetrically positioning the write and read traces on the flexure arm may prevent mechanical movement of the flexure arm when writing data. Windows etched in a stainless steel lamina are symmetric with the flexure arm. Symmetrically positioned windows in the stainless steel lamina may prevent imbalance of the flexure arm and may prevent or reduce both the generation of common mode signal and the thermal drift of the flexure arm during data write operations.